

# Multiple Antenna Configuration and support structure

## Abstract

A mounting configuration for a plurality of broadcast antennas that enables location of each antenna above the top of a support structure. Antenna spacing greater than the cross section of the support structure is obtained by mounting the antennas at either end of support beams extending beyond the support structure. Controlling antenna spacing improves RF signal patterns by reducing proximity to and thereby effects of nearby antennas and or support structure. Overturning moments of the antennas are reduced by mounting the antennas to the support beams at desired positions along their length, reducing structural requirements of the antennas and the support structure. Additional support may be obtained by also securing the antennas to a lower support beam.